



Mullarkey Expedition

(Field Trip No. 18 : Oct. 7th. - Dec. 6th. 1947)

No. 72 NOTE BOOK

(Calaby)

Ecological notes : 1

N.B. Mileage readings correct to
Kalgoorlie, thereafter 5% short.

Edgar.

Ceriodes - in tissue paper. } in tin with Cotton wool
Wasps - in tissue paper } and thymol (fungicide).
with Strepsiptera - 70 % alcohol.

Harpobittacus & other Mecoptera - 70 % alcohol.

Mayflies - 70 % alcohol.

Archichauliodes - No 2 pins - wings not set.
height of
specimen on pins.



Spirit specimens should not be allowed to shake around
- place tissue paper in tube to stop movement.

Majestic Hotel

King William St.

Adelaide

10 & 11 October

Ben.

24 Esmond Rd. Solomontown. (617)

B.H.A.S. 22. ext 75.

Nancy Burbidge

Contact. Brockway (or Donovan in his absence)
at Forest Dept. next to Police Station;
Kalgoorlie.

He will contact Harry Frank who has a
woodyard.

Interested in:-

Tarcoola - Ooldea (eucalypt cut out near Golden)

Forrest - Kalgoorlie.

Coolgardie - Newdegate - Wagin.

[Has collected Wagin - Cranbrook]

Cranbrook - South & rest of expedition.

Eucalypts, Eremophilas, Composites, grasses, etc.

Send material by air as often as possible
e.g. Ooldea, Kalgoorlie, Latanning, Esperance,
etc.

Plant descriptions.

Tree.

Shrub. large

small

undershrub

sub-shrub

Herb.

[Plant determinations by N.T. Burbidge]

7.10.47.

Dir. E. E. 10.10 a.m. 05547

Left. Canberra 11.15. a.m.

Gundagai 5653

Wagga Wagga 5711

8.10.47 Deniliquin 5876

Collected 5888

~~only 5 adult Acridids found. plenty of eggs in~~
~~one clut. one Acrid. (both males)~~

Eucalyptus woolseana + small amount bellidifera
light sandy soil. Chortocites terminifera,
Pycnostictus sp.

Collected 5930

nymphs in ^{relative} abundance. Chortocites terminifera
a few adult Chortocites (males.)

Camped. Stipa, Danthonia, Composites, etc
treeless.

Moulamein

5944

9-10-47.

Rained during night. Cold day.

5969. a few hoppers up to ^{final} penultimate instar (Chorto). did not collect.

Mallee, Stipa on cleared ground.

Swan Hill. 5992

6012

Chortocites terminifera
land with mallee, acacia, Bullbine, some Stipa, etc.
very few hoppers. Took a few adult Chort. of
both sexes mostly green in color.

6060

Mallee, wheat crop.

no grasshoppers

Buyn 6084.

6100.

Pezomachus seriatius
mallee, very little grass or other undercover
only 1 adult hopper + a few very young nymphs.

Pinnaroo 6173.

Drove in dark from inside Victoria and Camped
at 6216. Did not collect

10-10-47.

Drove straight to Adelaide to make up time
did not collect.

12-10-47. (Sunday) (very strong East wind.)

Majestic Hotel, Adelaide - 6343.

6359.

Red brown soil, Eucalyptus cladocalyx, wheat crop,
Palm's cane, wood-bone, etc.

no hoppers seen

Gawler 6371

6374.

Red-brown soil. Bar crop + fallow. Planted Eucalypt
& Callitris. No grasshoppers.

6390.

fallow, Stipa, etc on road. Wood of Callitris
chiefly with some mallee. No grasshoppers.

6404. Hind dropped. Some rain.

Savannah woodland. Eucalyptus, Casuarina,
some dwarf prickly Acacia, natural grass
chiefly Stipa. Also a field of clover, etc.
no grasshoppers at all.

Rhyne 6405.

Auburn 6414

6421. Savannah woodland + a down
pasture. No grasshoppers except a nymph of
a woodland form.

Clare 6429.

6436. Savannah woodland with a wheat
field and a grazed pasture with Paterson's
Curse, etc. Only bird found was a
Procypterus sp.

Today, except for the small residual savannah woodland
all of the country has consisted of grain fields +
long lush grass, etc.

13-10-47 6471 Georgetown. Camped.

6478 Gladstone

6485 Laura

6495. Creek with large eucalypts, grassland
Stipa - Danthonia, with Paterson's Curse, Capeweed.
one very small hopper (not collected).

6497 Winalunga

6506 Murray Town

6510. Small patch of timber, fallow field,
Chortoicetes terminifera
wheat crop.

Saw four *terminifera* in $\frac{1}{2}$ hr. The specimen
collected was the only brown one. others green.

6520. Dry sclerophyll forest. Euc. with some
Callitris. Off road $\frac{1}{2}$ mile. No hoppers (naturally)!
Stipa etc.

~~6530 Winton~~

6530 Wilmington

6535. Rocky (relatively) hillside with Stipa,
Paterson's curse, Capeweed, etc.

Chortoicetes terminifera
a few nymphs of various kinds. Saw four
adult *terminifera*. All brown. One specimen kept.

Hainock's Cray. F.I. No. 1.

6538

Saltbush, shrubs, etc.

a few terminifera and several other
acridids.

Flinders Range F.I. No. 2. 6539.

Port Augusta 6556.

6559. Red sand with Pavonia, etc.

a few terminifera adults. a lot of very
early nymphs on a dried ^{nut} flat.

6561 Large Lake on W side of

72 Fence

6575. Same as 6559 except for a few
+ some stipa.

Acacia terminifera still. Small
number of nymphs. Fe (lost) lost

6592. as for 6575.

no terminifera. Some interesting other
Acridids. Red sandy soil

6597 Coastal

If young stipa terminifera with a great
deal of robin 5 ro all go
lost lost

14-10-47.

6597. *Colletes* sp. *Oc. d. d. 4*
[*Acacia turkishii*, *A. anaura*, *Myoporum platycarpum*,
Went. Specimens (trees only).
Eremophila almyra (a)]

6612. *Colletes* sp. *Oc. d. d. 4*
[*Acacia turkishii*, *A. anaura*, *Myoporum platycarpum*,
Went. Specimens (trees only).
Eremophila almyra (a)]
In August. In this place
Red July soil.

6623. *Colletes* sp. *Oc. d. d. 4*
[*Acacia turkishii*, *A. anaura*, *Myoporum platycarpum*,
Went. Specimens (trees only).
Eremophila almyra (a)]
In August. In this place
Red July soil.

Neonalla 6625.

6638. Red clay. *Colletes* sp. *Oc. d. d. 4*
[*Acacia turkishii*, *A. anaura*, *Myoporum platycarpum*,
Went. Specimens (trees only).
Eremophila almyra (a)]

6652. *Colletes* sp.

No grasshoppers. Abundant Campoplex

Fl. 4. Abundant Campoplex

Fl. 2. Sandhill.

6708. ^{2 specimens of} formation of yellowish & brown
along banks. In small holes in soil
- 1 large one. Saw a number of yellow
- 1st year of juveniles, but not very many.
Panodytes alb. 500 off.

6717. Specimen on right side of stream on
banks, difficult to get into the water.

6718. ~~Specimen~~ Specimen along stream

^{Collection of, Ap. 1891, Ap. 1892, Ap. 1893}
6723. Specimen of ~~Ap. 1891~~ and ~~Ap. 1892~~ ~~Ap. 1893~~
shells, ~~specimen of~~ ~~specimen of~~ ~~specimen of~~
grasses. ~~specimen of~~ ~~specimen of~~ ~~specimen of~~
~~specimen of~~ ~~specimen of~~ ~~specimen of~~

6737. Station ^{presumably}, Co. & banks
no. no. later

6791. Red

Salt

0 for

6806. *Capparis* [*Acacia aurea*,

A. tetragonophylla, *Cassia* aff. *strobilata*]

6810.

6821. { *Amorpha*

6822.

6829 *Wilgenia*

6836. Red [*Casuarina cristata*]

... .. [*Eraucaria scoparia*,

Sodonaea microphylla]

... ..

... ..

... ..

6849. *Casuarina cristata*, *Macraea*? *brachyphylla*, *Nelrodendron oleaceifolium*, *Cassia eremophila* var. *platyphora*.
[Lake Umbagog].

8
[Acacia aneura, Melaleuca pauciflora]

Ex 9 Jennie moved.

[illegible]

6866 Pl. 10. *Leucis* wood.

6867 Malabar

[*Koehia sedifolia* (*K. ostenfeldii*)
(specimen of *obtusata*). No novelties
at all.

1. no (specimens of plants). No records at all.

6888. Pleasant.

[*Eucalyptus oleosa*, *E. piliata*,

6940 - Sandhill with water
[*E. dumosa*, *E. concinna*]

Chamaecrista etc.

Soak *Eucalyptus pycnantha*.

Oenothera not.

6947 - Elmer, Indiana

6951 - Sand - 6-11-45

6952 - Sand

6955. [*Eucalyptus oleosa* var. *glauca*, *Tridax*
lanata, *Trichinium exaltatum*, *Eremophila maculata*]

Pyrostictus seriatus *apocynifolius*.

6970. . Barton.

12-10-47. Sandhill with water

[*Eucalyptus oleosa*,

6971. Sandhill with water, *E. oleosa* var. *glauca*]

Urtica *diffusa*

fruticosa. but specimens of *Eucalyptus*

6983.

Depressum in flat all line

of small hills, in which water for long
[*Eucalyptus gracilis*,
E. pilcata, *E. oleosa*].

E. pilcata, *E. oleosa*].

Look for some of *Eucalyptus*
in hills.

6988.

Depressum flat color with few spots of tan
[*Tridodia scariosa*]

6989.

[*Stipa nitida*, *Tridodia scariosa*]

6998.

Eucalyptus gracilis, *Cassipouina cristata*, *E.*
oleosa, *Nyctoporum platycarpum*, *E. dumosa*.

Stipa, *Nyctoporum*, etc. *E. oleosa*.

June 7004

[*Grindelia huegelii*, *Borziaca Walteri*.

Hibbertia crispula, *Olearia* sp., *Nelalauca pubescens*]

Immatura (brown & small hills). The only

audible from some distance the
drumming under the mallee. Quite a
deal of rain during afternoon and
night.

(*Stipa*, *Nyctoporum*, etc. 80 ft. high)

19-10-47

[*Triodia scarosa*, *Callitris hemisphaerica*,

Leptospermum coriaceum, *Rhagodia preissii*, *Mela leuca*,
uncinata, *Marsdenia australis*, *Minuartia leptophylla*,
Solanum coarctiliferum, *Eucalyptus pimpliana*]

20-10-47

From Argylebit to the river

F. 2. 8. bus & many plants

7. dwarf succulent

12. *Immunaria* ~~hemisphaerica~~

11. Sand hill

12. *Melaleuca* ~~hemisphaerica~~

F. 2. 1. *Triodia* with dwarf *Leuca* etc.

Argylebit

Collected in middle Triodia country
immediately north of Argylebit. *Triodia* first
noticed. *Leuca* first *hemisphaerica* (F. 2. 10.)
(two: caught me for evidence).
The only *Leuca* in *Triodia* country, *Leuca* *hemisphaerica*
with longitudinal stripes.

21. 11. 47. [Mecalyptus olivacea var. glauca]

23-10-47.

Cook. 7026.

7027. ^{the same as 7026} ~~the same as 7026~~
Depression with some greenish
tint for some (the first).
Very cool with strong S.W. wind.
Sky overcast with some rain.
7028. ~~the same as 7026~~

7057. Same as previous. [Atriplex vesicaria]

Aug 7084

7040. like 7057 but that place
has got a few vegetable grasses
in the middle.

7117 S.A.W.A. Park

7118 Dactylis, ...
[...]

24-11-11

7125 *Stictis maculata*, ...

Pittosporum phylloracoides

Stipa fusca

... of ...
... of ...

7135. ...
... $\frac{1}{2}$ m.

... of ...

Reid 7156

7176. ...

Forrest 7177

7178. *Dactyloctenium aegyptium* [Stipa fusca]
also present (only one)
also present in round timbered area
from site of *Arctostaphylos*.

7181. *Scirpus americanus* - abundant.

7209. *Stipa* - dark. *Stipa*
abundant but for yellow *Stipa* - *Stipa*

7246. *Senecio laetifolius*,
Calotia multifida var. *breviradiata*
abundant but for yellow *Stipa* - *Stipa*

Longoria, 7233.

25-10-47

at day with strong East wind.
sky overcast.

left by 10:00 AM.

returned with 10:00 AM.

7261. Very dry. Shrub all dead
formerly cut out by cattle.

Acacia

7269. Detached 0-4 m. to ground
fossil (Carpenter) - *Acacia*

7276. Fossil of *Acacia*
[*Acacia leucogonophylla*, *Acacia leucogonophylla*]

Acacia *Punctata*

7282. Detached - 1 m. Lf

Acacia *leucogonophylla*

7305. Detached *Acacia* *leucogonophylla*

100. Fossil of *Acacia* *leucogonophylla*
leucogonophylla. Wind in 100 m. Lf
light rain.

Haig 7312

Acacia leucogonophylla *leucogonophylla*

7312. Fossil of *Acacia* *leucogonophylla*

Acacia leucogonophylla, *Acacia leucogonophylla*

Acacia leucogonophylla, *Acacia leucogonophylla*

Acacia leucogonophylla, *Acacia leucogonophylla*

Acacia leucogonophylla, *Acacia leucogonophylla*

7478. Stopped to collect but
collecting beyond by being caught
7488. [*Tridacna scariosa*]

Conna 7493

27-10-01

Karone 7544

7550.

Urosalpinx *gambusia*, *Austroicetes*
pusilla *gambusia* *gambusia*
gambusia *gambusia* *gambusia*
gambusia *gambusia* *gambusia*
gambusia *gambusia* *gambusia*

10 11 9 M. post

Visited many sites

Baudin 7563

7563. *Urosalpinx* *gambusia*, *Austroicetes*
pusilla *gambusia* *gambusia*
gambusia *gambusia* *gambusia*
gambusia *gambusia* *gambusia*

Conna

Kelgortie 7616.

N.B. Millage readings from Kalgoolie
onwards are 5% short.

31-10-47. immediately E. of Kal.

Collected on the bank today. An
irregular ridge of soil with some dead grass
and a few stunted shrubs. A number of
acridids.

1-11-47

Collected just N. of Kalgoolie on powerline
burn. Filled up with green *Pterodroma* etc.
Some sawannas woodlands, the number of
acridids in ditches.

Kalgoolie Hotel Hotel 7619.

4.45 pm.

✓ 7634. Dry red sandy soil with
smaller *Acridids*, but no
of *Atopsyga* etc. - very few *Acridids*
collected. *Myrmica* etc.
✓ *Myrmica* *Lasius* etc.

✓ 7649. Same loc. as 7634. Nothing

2-11-47 [Col. Watson's. Very much wet & cloudy.
Gums Nov. 31, Coryphantha sp.
7669. Dry forest? Eucalyptus (not
at all) and large amount of
Scaevola. Very few Acridids, all
fruiting about 40.

[Mela leuca laxiflora, M. uncinata,
7679. Grevillea haplantha, Velleia Daviesii, V. discophora,
Scaevola vestita] Gums Nov. 31, 1947
guttulosa

7680. Very dry

7694 [Calanthe pulcherrimum, Verticordia
picta, V. chrysanthra]
very dry, no rain, very hot - butting ground
dry, no rain, very hot

7695. Dry forest.
[Grevillea hooperiana, Eucalyptus uncinata,
Scaevola pauciflora]

7702. 10/11/47 10/14 10/14 Acridids

7721. Very dry

7724. Very dry forest with many gum
trees, very few Acridids, all fruiting

7733 Yellow pine to the W. yellow

7739. *Barbarea quadrifida* and *Barbarea*
[*Amphipogon caricinus*]

Andropogon scoparius and *Andropogon scoparius*

7749. *Andropogon scoparius* growing near
on road. (S. Wind). The country

is a dry point to which fields

7752 Southern Cross.

7754. *Andropogon scoparius* and a patch of dry
a bushy field with a high *Andropogon scoparius*
X *Andropogon scoparius* X *Andropogon scoparius*
X *Andropogon scoparius* X *Andropogon scoparius*
[*Mula leuca polygaloides*]

7769. Dry *Andropogon scoparius* and *Andropogon scoparius*
[*Mula leuca polygaloides*]

Shady field

Manuel Lodi 7771.

7777 *Andropogon scoparius*

Parkers Range. 7783.

7784 - Dry *Andropogon scoparius* with a high
dry *Andropogon scoparius*. Some *Andropogon scoparius*
with

3-11-47.

Table 1

7722. A pair, apparently mated, found mostly between grass. The female with prominent. The female

detained 1-6 m. E. on way back

the south of bridge. Just west of head of valley, slightly, possibly for water. Track visible long way ahead

7723. 1st male flat with small
[*Eucalyptus eximiflora* var. *grandiflora*, *Grevillea helmsii*, *Eucalyptus calycogona*, *E. flocktoniae* shape. Only found 2 acridids]

7724. F. 3. 9. 9. 1 male & 1 female.

Prospidura eyrci (♂), *Hemionia nigra*

[*Eucalyptus calycogona*]

Goniaca sp., *Pardillana* sp.

There is a small, brown, round, flat, like

(see also above) - very small, 3-4 mm

parallel to

7845.

Amis *argyræa* *argyræa*
open field - mostly *argyræa*
with some grasses chiefly *argyræa*.

Some *Amis* *argyræa* *argyræa*.

7846.

Large *argyræa* *argyræa*.

7847.

Turned back. went on right side of *argyræa*.

7848.

Back to turn off.

7849.

Left today over with *argyræa* *argyræa*.

Left today over with *argyræa* *argyræa*.

Went on right side of *argyræa* *argyræa*.

Left today.

Turned S.W. at 7879.

7881.

Amis *argyræa* *argyræa*.

Mostly *argyræa* *argyræa* with a lot

of *argyræa* *argyræa* *argyræa* with

argyræa *argyræa* *argyræa*.

argyræa *argyræa* *argyræa*.

7882.

argyræa *argyræa* (?) *argyræa* *argyræa*.

7883.

argyræa *argyræa* *argyræa* *argyræa*.

argyræa *argyræa* *argyræa* *argyræa*.

argyræa *argyræa* *argyræa* *argyræa*.

argyræa *argyræa* *argyræa* *argyræa*.

7900. *Abies* etc.

7906. turned west

7911. Dry eucalyptus forest, steep, gully

7-11-47 [Casuarina pyramidalis, Callitris drummondii,

Leptomeria procumbens, Regelia inopae]

7927. [Eucalyptus tetragona]

[Neumelina a Coppeuroides]

7942. *Dampiera eriocephala*, *Eucalyptus* sp., *Gracillia*
exilis, *Leptomerium* *erubescens*, *Cyanostegia*
lanceolata, *Verticordia roci*, *Gracillia integrifolia*
Lycium *ciliatum*, *Acacia* *retusa*]

Newly 7950.

Austrocyathus, *A. arida*

7956

7976. Mallee scrub on light soil

Lake George 1981. \Rightarrow 1982

7/19/60. Fair number of crickets in grass
8000. In the field, fairly close to
end of field with small amount of
grass. Heavily overcast. No wind. Collected.

8012 Baywatch = ~~8215~~
 about 3 m. below ...

8019. *A. pusilla*

8.24 10/11/18 10/11/18 10/11/18

8034 *Linum catharticum*
Native plant in light sandy soil. Leaves
about 1/2 an inch long and 1/4 inch wide.
On side of road.

Ongersup 8047.

8049. ^{from Ongersup} fallows, open grassed field and
a small Residual forest of rubber trees.
Only acridid found was Carausius - small
numbers.

[Ongersup 8047 ($\frac{1}{2}$ m. off main road)
infid suitable camp site]

5-11-47.

sky very overcast Day dull

8067.

^{Acridids found}
- fields and some cover.
Acridids not numerous. Especially
few - (all day etc.)

Ongersup 8044

[*Euclyptus curvata*, *Brigodan* *hirs*
humilis, *Euclyptus* *incrasata*, *E. occidentalis*
var. stenantha] *Urtica* *nigra*
field of 5 m. tall
mallee.

8077

Alnus incana

1st of year grass. 2nd of year
1st of year grass. 2nd of year

8106

T. mollis

8107

T. mollis

8108

8109

Urtica dioica, *Urtica*

Urtica dioica

8110

8111

Urtica dioica

Urtica dioica

Urtica dioica

Urtica dioica

Urtica dioica

8112

Urtica dioica

Urtica dioica

Urtica dioica

Urtica dioica

Urtica dioica

8202 - Barker

8211 ^{Wapiti} ~~Wapiti~~ ^{Wapiti} ~~Wapiti~~ 20 day 3c/foot
Wapiti ~~Wapiti~~ ^{Wapiti} ~~Wapiti~~ ^{Wapiti} ~~Wapiti~~
Wapiti ~~Wapiti~~ ^{Wapiti} ~~Wapiti~~ ^{Wapiti} ~~Wapiti~~

8226. Dry scler. forest. L. n. s. a. d.
C. n. s. a. d. n. s. a. d. n. s. a. d.

8235

7-11-47

8237

8238. ^[Linca leptus magna la. Agonis]
^[Peruice p., linca leptus calophylla]
with plenty of long green and yellow
a few brown spots but nothing

8241. [Beaufortia decussata la]

8255. The area of average country
with dry scler. forest very poor in
diversity.

8262. [Callistemon speciosus]

M darsa]

That plant all lost, very good
Cidarioidsp. 1 1 1
+ lush. No Rosidids with any
about.

Nonalup 8304

Albany 1382.

live a free country

Feb. 25. 4. Middleton Park
Mt. Clare. and others etc.

2297

Very *Chrysophyll* forest. Little *Pinus* and
other probably least common *E. Chrysophylla*
+ *Xanthoxylon* regenerating. Only small
remnants of forest frequenting types of *Acacia*.

8412. Heath country mostly flowering
shrubs & a few mallee type
eucalypts. No Acridids.

8428. Right in Chester Pass. Dry
shrubland forest. Eucalypts & the *Acacia*
and *Myrtus*. A number of small
mallee of forest fragment *Acacia*
but not *Acacia* mallee.

9-11-47

Dry woodland forest with *Acacia*
8442. *Acacia* *sp.*, *Myrtus* *sp.*, *Chorizanthe*
savannah mostly *Acacia*
eucalypts with a few *Acacia*.
In the *Acacia* mallee.

8453. *Acacia*

8455. *Acacia* *sp.*, *Chorizanthe*
peruviana

edge of *Acacia* mallee with a small
amount of mallee. A few *Acacia*.

Ongemup 8471.

Hemiteles

8475. *Hemiteles* (small) with small
pouch of pointed scales. Small
of the same.

8480. Typical *Hemiteles* with
a few pointed scales. No decided
2497. 54 up to 2. Cop. wound.

8482. *Hemiteles* (small).

8501. *Hemiteles* (small) along
edge of the rock. Small white

along the rock. Small white
Rabbit Fossils 8507

8520. *Hemiteles* (small) along
the rock. Small white

8535. Same as previous.

8550. *Hemiteles* (small) along
the rock. Small white

8670. Mallee on black
soil. ...

8685. Hatt. Only ...
Acacia

11-11-47

Urtica rugosa, *Rhynchospora*

8699. Bank of ...

Austrobaileya

day ... Lamium ...

... *Urtica rugosa* ...

8715. ...

... *Urtica rugosa* ...

8720. ...

8721

... 8748.

8752. *Chorizandra* *terminifera*
terminifera, *Chorizandra terminifera*
terminifera

12-11-47 *Prosedura egypti*, *Cirphula*
carolinaria, *Prosedura egypti*
Start 8763. 7, returning to
Kunoff to Cape Girardeau. 8765-6
logged thoroughly 8770.

8770. *Cirphula* sp.
faded ridge with red mud. A
few acorns & considerable number
of leaves.
unidentified species. 8773

after checking train 8777
8722 camp

13/11/47

Dull rain - Sunday
8953 2 eggs - large - 1st
9084 2 eggs - small - 2nd
9084 2 eggs - small - 2nd

14-11-47

Bathurst 9155.

Marshall Bay 7265

15-11-47

Marshall Bay 7265. *Choroicetes*
terminifera, *Austroicetes vulgaris corallipes*

17-11-47

Marshall Bay.

7265.

R. Bathurst

1550 ft.

18-11-47

Swamp Bay

9295

Chotoicetes tenuifera

9294. Shrub, fr. 15 cm. Difficult
and plain vegetation on the slope of
the mangrove about 1.5 m. from beach.

Cirphula carolinensis *Delotasp*

9295. 100 cm. Shrub. A. Monoculture of
plains with young trees growing from
sandy plain. 100 cm. 1.5 m. from
of sandy plain. The tree trunk was
lost from view. [Sketch picture]

Calladenia 9409.

ES 11.12 1.6.1. 100 cm. 1.5 m. from

20-21-47

19-47. 27-47. Balladonia.

Cold, strong wind and showers
130 ft. during afternoon of 18/4/47 and
morning of 19th.

Country around Balladonia is pretty well
grazed particularly around granite rocks.

Hochia *lincolniensis* - High all over
and *Acrida* fairly numerous.

21-47. Cool and windy
country around Balladonia.

10 miles N. of Balladonia.

field of fairly dense *Stipa*.

Many small birds of *Austrocinclus* sp.

Probably a *procurator* although they were
flying in a function of the strong wind.
Saw 1. Also many *for* *terrestris*.

21-11-47

Palladonia

Bacanya

Balladonia

9498

9464

Choroicetes tenuifera,
Austroicetes pusilla,
P. sublineata,
Uncia sublineata,
P. sublineata,
P. sublineata,
Austroicetes
pusilla, *A. cricata*,
A. frater

Bacanya. Homoclad in similar
 setting to Palladonia except that there
 are subcylindrical canals & more
 irregular than at Palladonia.
 Crinoid fossils were not seen to be
 present at Palladonia.

~~22-11-47~~

22-11-47

Balladonia

9464.

9465

Genus no. 22, *Austroicetes*
 9480. *Kochia simplex* with some small
multicellularis
 myofascia. No fossils in the middle.

1st ind. 2nd

74.15

266

1587

166 m. Peg 9494

266 m. Peg 9589

9495

Same as previous record that there are
Austroicetes nullarkhorensis
 a few left of *Stipa* and some *Eragrostis*.

9510

Same as previous record. Quite a
Austroicetes nullarkhorensis
 deal of dry grass. *Austroicetes* fairly
 plentiful.

9525

Pycnostichus sp. *Austroicetes*
nullarkhorensis and *undecoratus*
 of *Stipa* *Stipa* *Stipa* *Stipa* *Stipa*
 [thunder with a few *Stipa* of *Stipa*]

9540

Austroicetes nullarkhorensis, *Chortocetes*
remiifera *Stipa* *Stipa* *Stipa* *Stipa* *Stipa*
Stipa *Stipa* *Stipa* *Stipa* *Stipa*
Stipa *Stipa* *Stipa* *Stipa* *Stipa*

9556

Same as previous record. *Austroicetes*
nullarkhorensis *Stipa* *Stipa* *Stipa* *Stipa* *Stipa*

9570

Same as previous record. *Austroicetes*
nullarkhorensis *Stipa* *Stipa* *Stipa* *Stipa* *Stipa*
Stipa *Stipa* *Stipa* *Stipa* *Stipa*

Genus Nov. 42, *Austroicetes*
9585. Flat with lateral stripes
nallarborensis
mostly dead and dried green
0 for analysis.

766
23-11-47.

9605. To be kept and a few which
were to be kept. Some specimens
dried in.

Genus Nov. 42, *Austroicetes*
9615. *Chotoicetes tenuifera*, *Austroicetes frater*
of *Chotoicetes* and *Austroicetes*.
and kept, mostly dead.

50. 10. 42. Highway & Plant community

Austroicetes pusilla
9620. Flat with lateral stripes. Dried in
all. Small to medium size. Dry green
specimens.

1638. *Choristocryptus* sp. 32. *Austroicetes*
nallarborensis, *Austroicetes tenuifera*
plentiful.

1648. *Eucalyptus* and *Acacia* with
some *Arctostaphylos* etc. a bit of dead grass.
nothing remarkable.

Madura turn-off. 9649.

1641. *Austroicetes* sp. 32. *Austroicetes*
nallarborensis, *Austroicetes pusilla*,
and very little else. Soil rather
fine, somewhat dry. F. T. L. Eucalyptus.

1675. *Arctostaphylos* and *Arctostaphylos* with *Arctostaphylos*
and some *Arctostaphylos* on a very loose
gray brown soil. *Arctostaphylos*.

1640. *Choristocryptus* sp. 32. *Choristocryptus*
tenuifera. Soil and rocks. *Arctostaphylos* and some
at 4750. *Arctostaphylos* and *Arctostaphylos*.
a little of *Arctostaphylos*.

Mandalay Bay off 9679
Main Road 9702

9708. Bottom with mud and some
myxozoa near shore.

24-11-67.

Similar to, cloudy and windy.

Choroicetes tenuifera

9723. Bottom with mud and some
myxozoa near shore.

Choroicetes tenuifera near shore.

Choroicetes tenuifera

9738. Bottom with mud and some
myxozoa near shore.

Choroicetes tenuifera near shore.

Choroicetes tenuifera, *Choroicetes*

9753. Bottom with mud and some
myxozoa near shore.

tenuifera

Eucaly 9761.

9763.

Scorpioides sp.

Back on table land. Forest light (mostly)
and melaleucoid chiefly with the pebble
smaller shrubs. *Scorpioides* sp.

W.A. Carter

9771

Persea *Stylidium* sp.

Chortoicetes tenuifera, *Austroicetes pusilla*,
A. frater

9775.

Austroicetes nullarkhorensis

9775.

Chortoicetes tenuifera, *Austroicetes nullarkhorensis*

9828. Chimney and Shipa but hardly
Austroiceetes nullaborensis
eaten. Also some small insects.

Saw K. m. f. but did not collect it.

9842. A. P. mostly dry Shipa.

Austroiceetes nullaborensis
Down from into a very fine aliphatic
pau phis chide.

9852. Saw at the end of the line from
mostly eaten off. No recorded.

9872. Nullabor with some birds
and a few small birds.

mostly eaten off. No
recorded. / [Dayton was quite cold
with a strong S.E. wind.] /

Nullabor. Str. 1981.

28-11-97.

Wind still up Day cold.

9897. S. L. off to coast.

9877. Road of Brill. Vegetation right
to cliff edge. *Chortocetes tenuifera* in
along the top of the cliff.

[F7 up to 9. Cliff, N. side of
creek. At top of cliff
only one plant found is *tenuifera*.
one found on cliff edge. Nothing in
creek.]

9879 Main Rd.

9886. 15 miles from on Badly
exposed plants. a few *tenuifera*
and one *Austroacris* but did not
collect any. [Strong wind & rain came]

9891. Turned left along top of cliff.

9892. Strong wind. *tenuifera* & at least
Austroacris mullarkensis [F7. 10. ^{not found}
one of *tenuifera* found. ^{only}]

9896. Along the top of
the cliff along the top of the cliff.

9931. Still Highway running N.E.

Leaves 1900 35

9942. Only the leaves and stems with a green covering of mites. Soil considerably more sandy.

9943... ^{Leaves 1900 35}... to present except for a patch of short green stems. Soil less sandy & covering less mites.

9944. Fairly extensive flat sand with *Chortoicetes tenuifera*, *Austroicetes pusilla* short green stems.

9945 - Flat area with some short green stems and a small amount of mites.

Mallee on sandy ridge. Only one sp. of mites. *Chortoicetes tenuifera*. Fairly extensive. Leaves 1900 35.

9946. Sandy place with quite big mallee and very little undergrowth. *Austroicetes pusilla*

Very dry. No mites.

Chortoicetes tenuifera, *Austroicetes frater*,

10002. Sand ground fairly and the *A. pusilla* mites are quite common.

→ Colona 9987.

26-11-47

Cool, Chert, looking to be
10016. *Austroicetes*
frater
mudstone and small pebbles.

10031. *Austroicetes*
pusilla, *A. nullarborensis*
and good trace of *Trilobites*.

~~10032. *Austroicetes*~~

10046. *Choristoceras terminifera*, *Austroicetes frater*,
A. pusilla, *A. nullarborensis*
and a field of small *Trilobites* in the center.
and a few *A. nullarborensis*.

Parang 10049

10061. *Austroicetes pusilla*, *A. nullarborensis*,
A. frater
small *Trilobites* but with a few
small *A. nullarborensis*.

10076. *Austroicetes pusilla*, *A. frater*
mudstone, very little
mudstone and *A. nullarborensis*.

Ceduna. 10092.

11446

Mull Harbor Expedition.

(Field Trip no. 18: Oct. 7th. - Dec. 6th, 1947)

Ecological notes: 2

(Calaby)

N.B. Mileage readings 5% short.

27-11-47.

Overcast and muggy. too damp, to
pursue.

Left Ceduna 10094.

10098: Field of *Chorizandra* *Chorizandra* *Chorizandra*
Chorizandra *Chorizandra* *Chorizandra*

A. pusilla *A. pusilla* *A. pusilla*
field. Quite good collection. *Chorizandra*
Somewhat. Nothing in *Chorizandra* *Chorizandra*

10113: Sandy ridge with vegetation
A. frater *A. frater* *A. frater*

A. frater *A. frater* *A. frater*
And in about field *Chorizandra* *Chorizandra*
present.

10128: *Chorizandra* *Chorizandra* *Chorizandra*
A. frater *A. frater* *A. frater*

of a European weed and a prickly *Chorizandra*
Soil very loose and sandy. Very few acridids.
Chorizandra *Chorizandra* *Chorizandra*

10143: *Chorizandra* *Chorizandra* *Chorizandra*
A. vulgaris *A. vulgaris* *A. vulgaris*
A. vulgaris *A. vulgaris* *A. vulgaris*

A. pusilla, *A. frater* *A. pusilla*, *A. frater*
A. pusilla, *A. frater* *A. pusilla*, *A. frater*

10158. *Urena* sp., *Austroicetes vulgaris*

inter *U. vulgaris* & *U. corallipes*, *A. cruciata*

- *Durbinia*. Very few recorded, largely
erect. Did not get to top.

10160 Streaky Bay.

28-11-47

Morning with hot. Fine weather.

Approaching in afternoons. Wind. Rained a
lot yesterday afternoon and night.

Left Streaky Bay 10162.

10175. Mostly grassed country b.
Austroicetes pusilla, *A. frater*
the remnants of a eucalypt - *Casuarina*
association. Not as many acridids as
expected. Weather has hindered collecting.
Snow raining steadily.

10190. *Goniata* sp., *Austroicetes*
frater Healthy vegetation: myrtaceous
plants & small shrubs on a limestone
and ironstone soil. Arctids few.

Pt. Kenney 10199.

29-11-47

Rain cleared but still cool.

10205

Austroicetes vulgaris inter *v. vulgaris* &
v. corallipes, *A. pusilla*, *A. frater*

10220

Umriza rugosa, *Austroicetes*
pusilla, *A. vulgaris*, *A. frater*

10235

Umriza rugosa, *Austroicetes*
vulgaris inter *v. vulgaris* & *v. corallipes*

Elliott . 10239.

10250

Brachyexama helipennis,
Flat with large encrusting
Austroicetes cruciata, *A. vulgaris*

10265

Goniaca sp., *Umriza rugosa*,
Brachyexama helipennis, *Austroicetes*
terminifera, *Austroicetes cruciata*, *A. vulgaris*

The only common Acridid.
10286. Mostly ^{various sp. One little} small shrubs, *Austroicetes pusilla*, *A. frater*
Lock 10293.

10295. Field of ^{*Austroicetes frater*} small shrubs
and ^{small shrubs} with healthy shrubs
on the other. Apparently only one sp. of
acridid found (little common here)

10310. Healthy shrubs and small
succulents on sandy soil. no
Acridids between Lock and this has
been the only place having them since
today no grass and shrubs are very
wet.

30-11-47.

Day very dull and overcast.

10345 An association of the sp.
Chortolictes herniifera
of mallee close to wheat field. Dry and
Poor, very low vegetation.

10340. Similar native vegetation to
previous. Closed fields very bare. One
Acidid.

→ 10355 *Pyrocephalus rubinus*
on edge of a mallee
community. *Austrolites frater*,
both *Centropus* Community.
A. cruciata

Drifting rain. Clouded, fair in view
of weather. Only common 21 is backspine
on.

→ *Cummins* 10342

Conata 10362

10360. Good *Chortolictes* Community
Bradyperna latipennis
(natural) with some mallee shrubs & Casuarina.

A large of *Acidid* *S. P. n. n. n.*

F 7. 11. 47. *Edwards* records

10380. Mostly mallee with some
Iriodia on the edge of a reedy
swamp. no Acridids.

10395. Top of fairly high hill.
unisa sp., *Brachysama loliipennis*,
a few hoppers and fewer adults. *Brachyptis*
Azelota sp.
sp. present. Vegetation - mallees and
reedy grasses. [For past 30 miles
Country has been very green and lush.]
[[Jassid sweep: no jassids]].
Pt Lincoln. 10399.

5-12-47.

cool. clouds 95 sp.

Adelaide Post Office 10433.

10463. Savannah woodland, eucalypt
and casuarina. Plenty of long grass
still pretty green. a few very small
hoppers.

10478. Mallee and heathy shrubs
on a red sandy soil. a few
Acridids about. Nothing new.

Murray Bridge 10482.

10493. *Umisia guttulosa*, *Austroicetes*
frater, *A. pusilla*. Natural vegetation chiefly
Callitris on a limestone surface with
superficial sand covering. Some *Stipa* *Darwinii*
and plenty of horshound. a few acridids
terminifera present.

10498. Tailum Bend.

10508. Flat of black self-mulching
Chortoicetes terminifera, *A. interioris*
soil vegetated chiefly by *pernifera* & a few
Annual grasses. a few *terminifera*, only
one other acridid.

10523. Same as previous. a few
terminifera.

Meningie 10527.

10538. A mallee association with some
Acacia tree and a few other things like
Nicotiana & *Clematis*. Very sandy. no
Acridids whatever.

10553. Reedy beach vegetation
Chortoicetes terminifera
with a few unimportant shrubs.

terminifera & 1 sp. of *Austroicetes*.

10568. Scrubby beach vegetation
chiefly *Acacia* sp. no Acridids.
Pseudura lanceolata (R), *Brachysama*

10583. chiefly *melaleuca* with a
Leptopernis, *Chortoicetes terminifera*
Considerable amount of grass. A few
Acridids.

10598. Sophine along lake.

Acacias on beach sandhills. Lush
growth grass. Nothing.

10613. Fields of green grass.

Kingston ^{no} nothing.

10614.

10628. Same set-up as previous.
F.A. again.

6-12-47

Somewhat cool, "rather dull",
heavy dew.

10645. Savannah woodland.

lush green grass. no Cicadids.

10660. Lush green grass. F.A.

10675. as for previous.

Millicent 10681.